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To: Dr. J. L. Charles

Date: July 23, 1992

From: F. L. Daylor

Subject: ASHRAE

Gene Tucker of EPA chairs the committee that is revising the 62-89 ASHRAE Standard. The revision committee is SSPC-62. The committee met from 4:00 to 9:00 p.m. Sunday, the 28th of June. They approved the minutes of their first meeting in Anaheim and scheduled the next meeting for the Chicago meeting January 24 at 4:00 p.m. This meeting was largely devoted to reports from the subcommittees that had met earlier. However, Gene Tucker called on Ole' Fanger for his comments on IAQ matters in Europe. Ole' discussed Report No. 11 - European Guidelines for Ventilation Requirement in Buildings. If I understood correctly, this has been adopted in Germany. Copy of the Guidelines is available by fax request. See attachment.

Briefly the following are intended to summarize the "take home" comments from the subcommittees:

- **Health and Comfort; Chair John Samet**

  Bill Cain asked whether there is a definition of acceptable IAQ. Are there methodologies for determining acceptability in other standards? There was a series of questions about the content of other standards; body of knowledge about indoor effect of agents, individually and in mixtures.

  Bede Wellford discussed IAQ for residences versus other buildings as well as single versus multiple family residences. The Chair asked whether there should be a separate residential standard. In general, the responses favored a section for residences within SSPC-62.

- **IAQ Procedure; Chair Art Wheeler**

  Again this Subcommittee brought a listing of the questions they are facing more than anything.

  Questions include:

  What tools are needed?
  What changes in 62-89 are needed?
  What are the criteria for determining contaminants?
  What are the interactions of the building, the people, and their activities?

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What is comfort?
Is it absence of odor and irritation?
What is health?
Is research needed?
Should IAQ procedures be in Code Language?

- **Energy Impact; Chair Steve Taylor**

Again this was a summary of the questions they face to include:
What is the impact of PAHs in schools?
What are the "trade offs" between comfort and health and how do energy costs impact both comfort and health?

To summarize, the reports from the eight subcommittees gave a litany of the questions they face.

IAQ matters are everywhere at ASHRAE. SPC-129 has identified Milt Meckler as SPC-129's liaison to SSPC-62. Milt is not a voting member, but this liaison role gives him direct input into SSPC-62. SPC-129 is entitled "Ventilation Effectiveness."

There were some attention getting statements:

Gene Tucker - "....it is unrealistic to expect ventilation to provide acceptable IAQ....."

Bjorn Olsen - ".....remove ventilation from the title...."

In response to the two above, Hal Levin commented that they could change both the title and scope and not merely revise 62-89.

Steve Taylor voiced concerns about liability aspects in the use of the term "acceptable."

The meeting also presented a seminar: "Public Perspectives on IAQ." It was open to the public, no registration or fee. It was taped. This was an ASHRAE first for me. Up until this time ASHRAE had held tight control over their presentations. There was a handout, copy attached, the Seminar Chairman introduced Don Rich, ASHRAE President, and the propaganda began. He commented that IAQ problem can reduce productivity by 18%.

Of the four speakers, only one is a scientist and engineer. That is Phil Morey. In his talk, Kevin Teichman mentioned other ASHRAE standards that deal with IAQ. They are 52; Particle Filtration, 55; Thermal Comfort, and 90; Energy Conservation. He also used the phrase, "....tobacco smoke and other contaminants...." a number of

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times. In other presentations asbestos, radon, and ETS were identified as long term health risks. Also source management, ventilation, and air cleaning were discussed as IAQ solutions.

At the meeting RJR was represented by Steve Curl, Paul Nelson, Howard Toft, Ken Parrish. I also met a man, Al Gross, who told me he was at the meeting to report to RJR. He identified himself as a biostatistician at the Medical College of South Carolina in Charleston. I never saw him in conversation with or in the company of the other RJR people.

IAQ has been a long term issue at ASHRAE. They have dealt with CO, NOx, RSPs, unvented heaters, radon, et. al. ASHRAE's Position Statement and Position Paper of the 1980's -- are being circulated to distribution. If these were to be rewritten in the 1990's, I think ETS would be named as the principle IAQ problem because ETS can be eliminated by the stroke of a pen.

Frank

cc: D. Keane
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